



COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
Sheet 1 of 19

#20/I.D.S.

In re the Application of Smith et al.

Examiner: B. Whiteman

Serial No.: 09/610,313

Art Unit: 1635

Filed: July 5, 2000

Confirmation No.: 4221

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)

U.S. PATENT DOCUMENTS

Ex'r Initial	Ref. No.	Document No.	Date	Name	Class	SubClass	Filed
PW	A1	5,032,510	July 16, 1991	Kovacevic et al.			
	A2	RE 33,653	July 30, 1991	Mark et al.			
BW	A3	5,128,319	July 7, 1992	Arlinghaus			
	A4	5,256,767	October 26, 1993	Salk et al.			
	A5	5,304,472	April 19, 1994	Bass et al.			
	A6	5,364,773	November 15, 1994	Paoletti et al.			
	A7	5,419,900	May 30, 1995	Lane et al.			
	A8	5,503,833	April 2, 1996	Redmond et al.			
	A9	5,550,280	August 27, 1996	Dao-Cong et al.			
	A10	5,637,677	June 10, 1997	Greene et al.			
	A11	5,665,569	September 9, 1997	Ohno			
	A12	5,665,720	September 9, 1997	Young et al.			
	A13	5,670,152	September 23, 1997	Weiner et al.			
	A14	5,683,864	November 4, 1997	Houghton et al.			
	A15	5,686,078	November 11, 1997	Becker et al.			
	A16	5,693,755	December 2, 1997	Buonagurio et al.			
	A17	5,712,088	January 27, 1998	Houghton et al.			
	A18	5,714,596	February 3, 1998	Houghton et al.			
	A19	5,728,520	March 17, 1998	Weiner et al.			
	A20	5,741,492	April 21, 1998	Hurwitz et al.			
PW	A21	5,750,373	May 12, 1998	Garrard et al.			

Examiner: Brian R. Whiteman

Date Considered: 2/21/07

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In re the Application of Barnett et al.

Examiner: B. Whiteman

Serial No.: 09/610,313

Art Unit: 1635

Filed: July 5, 2000

Confirmation No.: 4221

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

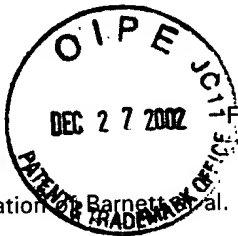
Atty. Docket No.: 1631.101 (2302-1631.20)

BN	A22	5,766,845	June 16, 1998	Weiner et al.				
	A23	5,817,637	October 6, 1998	Weiner et al.				
	A24	5,837,242	November 17, 1998	Holliger et al.				
	A25	5,837,818	November 17, 1998	Buonagurio et al.				
	A26	5,853,736	December 29, 1998	Becker et al.				
	A27	5,858,675	January 12, 1999	Hillman et al.				
	A28	5,866,320	February 2, 1999	Rovinski et al.				
	A29	5,871,747	February 16, 1999	Gengoux-Sedlik et al.				
	A30	5,879,907	March 9, 1999	Aberg, et al.				
	A31	5,879,925	March 9, 1999	Rovinski, et al.				
	A32	5,889,176	March 30, 1999	Rovinski et al.				
	A33	5,932,445	August 3, 1999	Lal et al.				
	A34	5,951,975	September 14, 1999	Falo Jr., et al.				
	A35	5,955,342	September 21, 1999	Rovinski et al.				
	A36	5,965,726	October 12, 1999	Pavlakakis et al.				
	A37	5,972,596	October 26, 1999	Pavlakakis et al.				
	A38	6,001,977	December 14, 1999	Chang et al.				
	A39	6,004,763	December 21, 1999	Gengoux et al.				
	A40	6,025,125	February 15, 2000	Rovinski et al.				
	A41	6,060,273	May 9, 2000	Dirks et al.				
	A42	6,060,587	May 9, 2000	Weiner et al.				
	A43	6,063,384	May 16, 2000	Morrow et al.				
BN	A44	6,074,636	June 13, 2000	Nichols				

Examiner: *BN 9/10*

Date Considered: *2/21/02*

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Examiner: B. Whiteman

Serial No.: 09/610,313

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Atty. Docket No.: 1631.101 (2302-1631.20)

BV	A45	6,080,408	June 27, 2000	Rovinski et al.				
	A46	6,087,486	July 11, 2000	Weiner et al.				
	A47	6,093,800	July 25, 2000	Reiter et al.				
	A48	6,096,505	August 1, 2000	Selby et al.				
	A49	6,099,847	August 8, 2000	Tobin et al.				
	A50	6,114,148	September 5, 2000	Seed et al.				
	A51	6,132,973	October 17, 2000	Lal et al.				
	A52	6,139,833	October 31, 2000	Burgess et al.				
	A53	6,140,059	October 31, 2000	Schawaller				
	A54	6,146,635	November 14, 2000	Cano et al.				
	A55	6,172,201	January 9, 2001	Weiner et al.				
	A56	6,174,666	January 16, 2001	Pavlakakis et al.				
	A57	6,214,804	April 10, 2001	Felgner et al.				
	A58	6,291,157	September 18, 2001	Rovinski et al.				
	A59	6,291,664	September 18, 2001	Pavlakakis et al.				
	A60	6,316,253	November 13, 2001	Innis et al.				
BV	A61	6,331,404	December 18, 2001	Berman et al.				

FOREIGN PATENT DOCUMENTS

Ex'r Initial	Ref. No.	Document No.	Published	Country	Class	SubClass	Translation	
							YES	NO
BV	B1	WO 86/03224	June 5, 1986	PCT WIPO				
	B2	WO 87/02775	May 7, 1987	PCT WIPO				
	B3	WO 88/00471	January 28, 1988	PCT WIPO				
BV	B4	WO 88/10300	December 29, 1988	PCT WIPO				

Examiner: *BV*Date Considered: *2/2/02*

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Serial No.: 09/610,313

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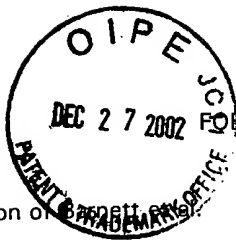
Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)

PW	B5	WO 89/01940	March 9, 1989	PCT WFO						
	B6	WO 89/02277	March 23, 1989	PCT						
	B7	WO 89/02922	April 6, 1989	PCT						
	B8	WO 89/03222	April 20, 1989	PCT						
	B9	WO 90/02568	March 22, 1990	PCT						
	B10	WO 90/03984	April 19, 1990	PCT						
	B11	WO 90/10438	September 20, 1990	PCT						
	B12	WO 90/11092	October 4, 1990	PCT						
	B13	WO 90/11359	October 4, 1990	PCT						
	B14	WO 90/12094	October 18, 1990	PCT						
	B15	WO 90/15141	December 13, 1990	PCT						
	B16	WO 91/04273	April 4, 1991	PCT						
	B17	WO 91/06319	May 16, 1991	PCT						
	B18	WO 91/07425	May 30, 1991	PCT						
	B19	WO 91/07510	May 30, 1991	PCT						
	B20	WO 91/13360	September 5, 1991	PCT						
	B21	WO 91/13906	September 19, 1991	PCT						
	B22	WO 91/15238	October 17, 1991	PCT						
	B23	WO 91/15512	October 17, 1991	PCT						
	B24	WO 91/16926	November 14, 1991	PCT						
	B25	WO 91/18928	December 12, 1991	PCT						
	B26	WO 91/19803	December 26, 1991	PCT						
PW	B27	WO 92/03475	March 5, 1992	PCT WFO						

Examiner: Bm21103Date Considered: 2/21/03

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In re the Application of 6,628,111

Examiner: B. Whiteman

Serial No.: 09/610,313

Art Unit: 1635

Filed: July 5, 2000

Confirmation No.: 4221

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)

<i>PM</i>	B28	WO 92/04046	March 19, 1992	PCT WFO				
	B29	WO 92/05799	April 16, 1992	PCT				
	B30	WO 93/02102	February 4, 1993	PCT				
	B31	WO 93/04090	March 4, 1993	PCT				
	B32	WO 93/08836	May 13, 1993	PCT				
	B33	WO 93/14789	August 5, 1993	PCT				
	B34	WO 93/20212	October 14, 1993	PCT				
	B35	WO 93/21346	October 28, 1993	PCT				
	B36	WO 93/23569	November 25, 1993	PCT				
	B37	WO 94/04574	March 3, 1994	PCT				
	B38	WO 94/07922	April 14, 1994	PCT				
	B39	WO 94/11523	May 26, 1994	PCT				
	B40	WO 94/13804	June 23, 1994	PCT				
	B41	WO 94/15621	July 21, 1994	PCT				
	B42	WO 94/16060	July 21, 1994	PCT				
	B43	WO 94/16737	August 4, 1994	PCT				
	B44	WO 94/18221	August 18, 1994	PCT				
	B45	WO 94/20141	September 15, 1994	PCT				
	B46	WO 94/20640	September 15, 1994	PCT				
	B47	WO 94/22477	October 13, 1994	PCT				
	B48	WO 94/26293	November 24, 1994	PCT				
	B49	WO 94/29339	December 22, 1994	PCT				
<i>DR</i>	B50	WO 95/03407	February 2, 1995	PCT WFO				

Examiner: *B. Whiteman*

Date Considered: *2/21/03*

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Atty. Docket No.: 1631.101 (2302-1631.20)

B51	WO 95/04818	February 16, 1995	PCT WIPD
B52	WO 95/11317	April 27, 1995	PCT
B53	WO 95/11701	May 4, 1995	PCT
B54	WO 95/24485	September 14, 1995	PCT
B55	WO 95/25124	September 21, 1995	PCT
B56	WO 95/27505	October 19, 1995	PCT
B57	WO 95/29700	November 9, 1995	PCT
B58	WO 95/33206	December 7, 1995	PCT
B59	WO 95/33835	December 14, 1995	PCT
B60	WO 96/02273	February 1, 1996	PCT
B61	WO 96/02557	February 1, 1996	PCT
B62	WO 96/04382	February 15, 1996	PCT
B63	WO 96/09066	March 28, 1996	PCT
B64	WO 96/09378	March 28, 1996	
B65	WO 96/16178	May 30, 1996	PCT
B66	WO 96/20732	July 11, 1996	PCT
B67	WO 96/23509	August 8, 1996	PCT
B68	WO 96/25177	August 22, 1996	PCT
B69	WO 96/40290	December 19, 1996	PCT
B70	WO 97/03198	January 30, 1997	PCT
B71	WO 97/11605	April 3, 1997	PCT
B72	WO 97/26009	July 24, 1997	PCT
B73	WO 98/08539	March 5, 1998	PCT WIPD

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Date Considered: 2/27/02

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P ₂	B74	WO 98/41536	September 24, 1998	PCT W30				
	B75	WO 98/41645	September 24, 1998	PCT				
	B76	WO 98/43182	October 1, 1998	PCT				
	B77	WO 98/48843	November 5, 1998	PCT				
	B78	WO 98/59074	December 30, 1998	PCT				
	B79	WO 99/02694	January 21, 1999	PCT				
	B80	WO 99/06599	February 11, 1999	PCT				
	B81	WO 99/09412	February 25, 1999	PCT				
	B82	WO 99/12416	March 18, 1999	PCT				
	B83	WO 99/13864	March 25, 1999	PCT				
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	B87	WO 99/52463	October 21, 1999	PCT				
	B88	WO 99/53960	October 28, 1999	PCT				
	B89	WO 99/67395	December 29, 1999	PCT				
	B90	WO 00/08043	February 17, 2000	PCT				
	B91	WO 00/18929	April 6, 2000	PCT				
	B92	WO 00/21556	April 20, 2000	PCT				
	B93	WO 00/39302	July 6, 2000	PCT				
	B94	WO 00/39303	July 6, 2000	PCT				
	B95	WO 00/39304	July 6, 2000	PCT				
PW	B96	WO 00/44926	August 3, 2000	PCT W30				

Examiner: *Bm d H*

Date Considered: *2/21/03*

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Atty. Docket No.: 1631.101 (2302-1631.20)

<i>PN</i>	B97	WO 00/65076	November 2, 2000	PCT <i>WFO</i>				
	B98	WO 00/66179	November 9, 2000	PCT				
	B99	WO 00/67761	November 16, 2000	PCT				
	B100	WO 00/67787	November 16, 2000	PCT				
	B101	WO 00/71561	November 30, 2000	PCT				
	B102	WO 01/02607	January 11, 2001	PCT				
	B103	WO 01/12223	February 22, 2001	PCT				
	B104	WO 01/16342	March 8, 2001	PCT				
	B105	WO 01/19958	March 22, 2001	PCT				
	B106	WO 01/21270	March 29, 2001	PCT				
	B107	WO 01/26681	April 19, 2001	PCT				
	B108	WO 01/29225	April 26, 2001	PCT				
	B109	WO 01/36614	May 25, 2001	PCT				
	B110	WO 01/42308	June 14, 2001	PCT				
	B111	WO 01/43693	June 21, 2001	PCT				
	B112	WO 01/45748	June 28, 2001	PCT				
	B113	WO 01/46408	June 28, 2001	PCT				
	B114	WO 01/47955	July 5, 2001	PCT				
	B115	WO 01/54701	August 2, 2001	PCT				
	B116	WO 01/54719	August 2, 2001	PCT				
	B117	WO 01/60838	August 23, 2001	PCT				
	B118	WO 01/60393	August 23, 2001	PCT <i>WFO</i>				
<i>PN</i>	B119	EP 0187041	July 9, 1986	EPO				

Examiner: *B. Whiteman*

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B2	B120	EP 0199301A1	October 29, 1986	EPO				
	B121	EP 0242216	October 21, 1987	EPO				
	B122	EP 0314317A1	May 3, 1989	EPO				
	B123	EP 0449116B1	October 2, 1991	EPO				
	B124	EP 0617132A2	September 28, 1994	EPO				
A	B125	EP 0449116B1	October 2, 1999	EPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ex'r Initial	Ref. No.	Description
B2	C1	GenBank accession no: AF110965
	C2	GenBank accession no: AF110967
	C3	GenBank accession no: AF110968
	C4	GenBank accession no: AF110975
	C5	GenBank accession no: M65024
B2	C6	Adams et al., "The Expression of Hybrid HIV:ty Virus-like Particles in Yeast," <i>Nature</i> <u>329</u> :68-70 (1987)
	C7	Anderson, et al., "Human Gene Therapy," <i>Nature</i> <u>392</u>(6679 Suppl):25-30 (1998)
BW	C8	Arthur, et al., "Serological Responses in Chimpanzees Inoculated with Human Immunodeficiency Virus Glycoprotein (Gp120) Subunit Vaccine," <i>Proc Natl Acad Sci USA</i> <u>84</u> (23):8583-8587 (1987)
	C9	Azevedo et al., "Main Features of DNA-Based Immunization Vectors," <i>Braz J Med Biol Res.</i> <u>32</u>(2):147-153 (1999)
B2	C10	Baker et al., "Structures of Bovine and Human Papillomaviruses. Analysis by Cryoelectron Microscopy and Three-dimensional Image Reconstruction," <i>Biophys. J.</i> <u>60</u> :1445-1456 (1991)
	C11	Barr, et al., "Antigenicity and Immunogenicity of Domains of the Human Immunodeficiency Virus (HIV) Envelope Polypeptide Expressed in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Vaccine</i> <u>5</u> (2):90-101 (1987)
BW	C12	Barrett, et al., "Large-scale production and purification of a vaccinia recombinant-derived HIV-1 gp160 and analysis of its immunogenicity," <i>AIDS Res Hum Retroviruses</i> <u>5</u> (2):159-71 (1989)

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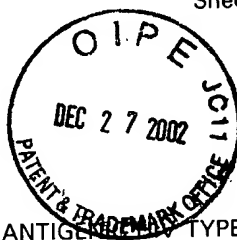
In re the Application of Barnett et al.

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Atty. Docket No.: 1631.101 (2302-1631.20)



Examiner: B. Whiteman

Art Unit: 1635

Confirmation No.: 4221

Ex'r Initial	Ref. No.	Description
Bh	C13	Beard, W. A., et al., "Role of the "Helix Clamp" in HIV-1 Reverse Transcriptase Catalytic Cycling as Revealed by Alanine-Scanning Mutagenesis," <i>Journal Of Biological Chemistry</i> 271(21):12213-12220 (1996)
	C14	Berger, P.B., "New Directions in Research: Report from the 10th International Conference on AIDS," <i>Canadian Medical Association Journal</i> 152(12):1991-1995 (1995)
	C15	Berman, et al., "Human Immunodeficiency Virus Type 1 Challenge of Chimpanzees Immunized with Recombinant Envelope Glycoprotein gp120," <i>Proc Natl Acad Sci USA</i> 85(14):5200-5204 (1988)
	C16	Berman, et al., "Expression and Immunogenicity of the Extracellular Domain of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein, gp160," <i>J Virol.</i> 63(8):3489-3498 (1989)
	C17	Birx and Redfield, "HIV Vaccine Therapy," <i>Int J Immunopharmacol.</i> 13(1):129-132 (1991)
	C18	Bolognesi, D.P., "Progress in Vaccines Against AIDS," <i>Science</i> 246:1233-1234 (1989)
	C19	Borrow, et al., "Virus-Specific CD8 + Cytotoxic T-Lymphocyte Activity Associated with Control of Viremia in Primary Human Immunodeficiency Virus Type 1 Infection," <i>J Virol.</i> 68(9):6103-6110 (1994)
	C20	Bourgault, et al., "Cytotoxic T-Cell Response and AIDS-Free Survival in Simian Immunodeficiency Virus-Infected Macaques," <i>AIDS.</i> 7 (Suppl 2):S73-S79 (1993)
	C21	Brown et al., "Chimeric Parvovirus B19 Capsids for the Presentation of Foreign Epitopes," <i>Virology</i> 198:477-488 (1994)
DW	C22	Bujacz, G., et al., "The Catalytic Domain of Human Immunodeficiency Virus Integrase: Ordered Active Site in the F185H Mutant," <i>Febs Letters</i> 398(2-3):175-178 (1996)
	C23	Burton et al., "Why Do We Not Have an HIV Vaccine and How Can We Make One?" <i>Nat Med.</i> 4(5 Suppl):495-498 (1998)
MV	C24	Carmichael et al., "Quantitative Analysis of the Human Immunodeficiency Virus Type 1 (Hiv-1)-specific Cytotoxic T Lymphocyte (Ctl) Response at Different Stages of Hiv-1 Infection: Differential Ctl Responses to Hiv-1 and Epstein-barr Virus in Late Disease," <i>J Exp Med.</i> 177(2):249-256 (1993)
	C25	Chazal N. et al., "Phenotypic Characterization of Insertion Mutants of the Human Immunodeficiency Virus Type 1 Gag Precursor Expressed in Recombinant Baculovirus-infected Cells," <i>Virology</i> 68(1):111-122 (1994)
PV	C26	Ciernik et al., "Induction of Cytotoxic T Lymphocytes and Antitumor Immunity with Dna Vaccines Expressing Single T Cell Epitopes," <i>J. Immunol.</i> 156(7):2369-2375 (1996)

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In re the Application of Barnett et al.

Serial No.: 09/610,313

Filed: July 5, 2000

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)



Examiner: B. Whiteman

Art Unit: 1635

Confirmation No.: 4221

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	C27	Clavel et al., "Isolation of a New Human Retrovirus from West African Patients with AIDS," <i>Science</i> 233:343-346 (1986)
	C28	Clavel et al., "Molecular Cloning and Polymorphism of the Human Immune Deficiency Virus Type 2," <i>Nature</i> 324:691-695 (1986)
PR	C29	Daar et al., "Transient High Levels of Viremia in Patients with Primary Human Immunodeficiency Virus Type 1 Infection," <i>N Engl J Med.</i> 324(14):961-964 (1991)
	C30	Davey et al., "Subcutaneous administration of interleukin-2 in human immunodeficiency virus type 1-infected persons," <i>J Infect Dis.</i> 175(4):781-789 (1997)
	C31	Davies J. F., et al., "Crystal structure of the ribonuclease H domain of HIV-1 reverse transcriptase," <i>Science</i> 252(5002):88-95 (1991)
	C32	Deminie et al., "Evaluation of Reverse Transcriptase and Protease Inhibitors in Two-drug Combinations Against Human Immunodeficiency Virus Replication," <i>Antimicrob Agents Chemother.</i> 40(6):1346-1351 (1996)
	C33	Desai et al., "Molecular Cloning and Primary Nucleotide Sequence Analysis of a Distinct Human Immunodeficiency Virus Isolate Reveal Significant Divergence in its Genomic Sequence," <i>Proc. Natl. Acad. Sci. USA</i> 83:8380-8384 (1986)
	C34	Doe et al., "Induction of HIV-1 Envelope (gp120)-Specific Cytotoxic T Lymphocyte Responses in Mice by Recombinant CHO Cell-Derived gp120 is Enhanced by Enzymatic Removal of N-Linked Glycans," <i>Eur. J. Immunol.</i> 24:2369-2376 (1994)
	C35	Doe, B. and Walker, C.M. "HIV-1 p24 Gag-Specific Cytotoxic T-Lymphocyte Responses in Mice," <i>AIDS</i> 10(7):793-794 (1996)
	C36	Dyda F., et al., "Crystal Structure of the Catalytic Domain of HIV-1 Integrase: Similarity to Other Polynucleotidyl Transferases," <i>Science</i> 266(5193):1981-1986 (1994)
	C37	Earl et al., "Isolate-and Group-specific Immune Responses to the Envelope Protein of Human Immunodeficiency Virus Induced by a Live Recombinant Vaccinia Virus in Macaques," <i>AIDS Res Hum Retroviruses</i> 5(1):23-32 (1989)
	C38	Edelman, R., "Vaccine Adjuvants," <i>Rev Infect Dis.</i> 2(3):370-383 (1980)
	C39	Engelman, A. et al., "Structure-based Mutagenesis of the Catalytic Domain of Human Immunodeficiency Virus Type 1 Integrase," <i>Journal Of Virology</i> 71(5):3507-3514 (1997)
BW	C40	Esnouf et al., "Mechanism of Inhibition of HIV-1 Reverse Transcriptase by Nonnucleoside Inhibitors," <i>Structural Biology</i> 2(4):303-308 (1995)

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Serial No.: 09/610,313

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Title: POLYNUCLEOTIDES ENCODING AN HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)

Ex'r Initial	Ref. No.	Description
BW	C41	Evans et al., "An Engineered Poliovirus Chimaera Elicits Broadly Reactive Hiv-1 Neutralizing Antibodies," <i>Nature</i> <u>339</u> (6223):385-388 (1989)
	C42	Faust et al., "Outpatient Biopsies of the Palatine Tonsil: Access to Lymphoid Tissue for Assessment of Human Immunodeficiency Virus RNA Titers," <i>Otolaryngol Head Neck Surg.</i> <u>114</u> (4):593-598 (1996)
	C43	Fennie et al., "Model for Intracellular Folding of the Human Immunodeficiency Virus Type 1 gp120," <i>J Virol.</i> <u>63</u> (2):639-646 (1989)
	C44	Ferre et al., "Combination Therapies Against HIV-1 Infection: Exploring the Concept of Combining Antiretroviral Drug Treatments with HIV-1 Immune-Based Therapies in Asymptomatic Individuals," <i>AIDS Patient Care STDS</i> <u>10</u> (6):357-361 (1996)
	C45	Fisher, et al., "Biologically diverse molecular variants within a single HIV-1 isolate," <i>Nature</i> <u>334</u> :444-447 (1988)
	C46	Fox et al., "No Winners Against AIDS," <i>Bio/Technology</i> <u>12</u> (2):128 (1994)
	C47	Gamier, L. et al., "Particle Size Determinants in the Human Immunodeficiency Virus Type 1 Gag Protein," <i>J Virol</i> <u>72</u> (6):4667-4677 (1998)
	C48	Goldgur, Y. et al., "Three New Structures of the Core Domain of HIV-1 Integrase: an Active Site That Binds Magnesium," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>95</u> (16):9150-9154 (1998)
	C49	Goudsmit et al., "Human Immunodeficiency Virus Type 1 Neutralization Epitope with Conserved Architecture Elicits Early Type-specific Antibodies in Experimentally Infected Chimpanzees," <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> :4478-4482 (1988)
	C50	Greene, "AIDS and the Immune System," <i>Scientific American</i> Sep.:99-105 (1993)
	C51	Griffiths J.C. et al., "Hybrid Human Immunodeficiency Virus Gag Particles as an Antigen Carrier System: Induction of Cytotoxic T-cell and Humoral Responses by a Gag:V3 Fusion," <i>J. Virol.</i> <u>67</u> (6):3191-3198 (1993)
	C52	Grimison B. and Laurence, J., "Immunodominant Epitope Regions of HIV-1 Reverse Transcriptase: Correlations with HIV-1 + Serum IgG Inhibitory to Polymerase Activity and With Disease Progression," <i>Journal Of Acquired Immune Deficiency Syndromes and Human Retrovirology</i> <u>9</u> (1):58-68 (1995)
BW	C53	Gurgo et al., "Envelope Sequences of Two New United States HIV-1 Isolates," <i>Virology</i> <u>164</u> :531-536 (1988)

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	C54	Gurunathan et al., "CD40 Ligand/Trimer DNA Enhances Both Humoral and Cellular Immune Responses and Induces Protective Immunity to Infectious and Tumor Challenge," <i>J Immunol.</i> <u>161</u> (9):4563-4571 (1998)
	C55	Guyader et al., "Genome Organization and Transactivation of the Human Immunodeficiency Virus Type 2," <i>Nature</i> <u>326</u>:662-669 (1987)
DW	C56	Hagensee et al., "Three-dimensional Structure of Vaccinia Virus-produced Human Papillomavirus Type 1 Capsids," <i>J. Virol.</i> <u>68</u> :4503-4505 (1994)
	C57	Hahn et al., "Genetic Variation in HTLV-III/LAV Over Time in Patients with AIDS or at Risk for AIDS," <i>Science</i> <u>232</u> :1548-1553 (1986)
	C58	Hammer et al., "Issues in Combination Antiretroviral Therapy: a Review," <i>J Acquir Immune Defic Syndr.</i> <u>7</u> (Suppl 2):S24-S37 (1994)
	C59	Haynes et al., "Update on the Issues of Hiv Vaccine Development," <i>Ann Med.</i> <u>28</u> (1):39-41 (1996)
	C60	Haynes et al., "Toward an Understanding of the Correlates of Protective Immunity to Hiv Infection" <i>Science</i> <u>271</u> :324-328 (1996)
	C61	Heeney et al., "Beta-chemokines and Neutralizing Antibody Titers Correlate with Sterilizing Immunity Generated in HIV-1 Vaccinated Macaques," <i>Proc Natl Acad Sci USA</i> <u>95</u> (18):10803-10808 (1998)
	C62	Hickman, A. B., et al., "Biophysical and enzymatic properties of the catalytic domain of HIV-1 integrase," <i>Journal Of Biological Chemistry</i> <u>269</u> (46):29279-29287 (1994)
	C63	Ho et al., "Human Immunodeficiency Virus Neutralizing Antibodies Recognize Several Conserved Domains on the Envelope Glycoproteins," <i>J Virol.</i> <u>61</u> (6):2024-2028 (1987)
	C64	Jacobo-Molina, A. et al., "Crystal Structure of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Complexed with Double-stranded DNA at 3.0 A Resolution Shows Bent DNA," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>90</u> (13):6320-6324 (1993)
	C65	Katz, R. A. and Skalka, A. M., "The Retroviral Enzymes," <i>Annual Review Of Biochemistry</i> <u>63</u> :133-73 (1994)
	C66	Keefer, et al., "Safety and Immunogenicity of Env 2-3, a Human Immunodeficiency Virus Type 1 Candidate Vaccine, in Combination with a Novel Adjuvant, MTP-PE/MF59. NIAID AIDS Vaccine Evaluation Group," <i>AIDS Res Hum Retroviruses.</i> <u>12</u> (8):683-693 (1996)
DW	C67	Kirnbauer et al., "Efficient Self-assembly of Human Papillomavirus Type 16 L1 and L1-L2 into Virus-Like Particles," <i>J. Virol.</i> <u>67</u> :6929-6936 (1993)

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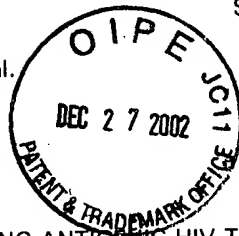
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BT	C68	Klenerman, et al., "Original Antigenic Sin Impairs Cytotoxic T Lymphocyte Responses to Viruses Bearing Variant Epitopes," <i>Nature</i> <u>394</u> (6692):482-485 (1998)
	C69	Koff et al., "Development and Testing of AIDS Vaccines," <i>Science</i> <u>241</u> :426-432 (1988)
	C70	Koff and Schultz, "Progress and Challenges Toward and AIDS Vaccine: Brother, Can You Spare a Paradigm?" <i>J. Clinical Immunology</i> <u>16</u> (3):127-133 (1996)
	C71	Kohl et al., "Active Human Immunodeficiency Virus Protease Is Required for Viral Infectivity," <i>PNAS USA</i> <u>85</u> :4686-4690 (1988)
	C72	Kohlstaedt, L. A. et al., "Crystal Structure at 3.5 A Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> <u>256</u> (5065):1783-1790 (1992)
	C73	Koup et al., "Temporal Association of Cellular Immune Responses with the Initial Control of Viremia in Primary Human Immunodeficiency Virus Type 1 Syndrome," <i>J Virol.</i> <u>68</u> (7):4650-4655 (1994)
	C74	Kovacs et al., "Increases in CD4 T Lymphocytes with Intermittent Courses of Interleukin-2 in Patients with Human Immunodeficiency Virus Infection," <i>New England J. Med.</i> <u>332</u> (9):567-575 (1995)
	C75	Kovacs et al., "Controlled Trial of Interleukin-2 Infusions in Patients Infected with the Human Immunodeficiency Virus," <i>N Engl J Med.</i> <u>335</u> (18):1350-1356 (1996)
	C76	Krausslich et al., "Processing of in Vitro-synthesized Gag Precursor Proteins of Human Immunodeficiency Virus (HIV) Type 1 by HIV Proteinase Generated in <i>Escherichia coli</i> ," <i>J. Virol.</i> <u>62</u> :4393-4397 (1988)
	C77	Kreuter J., et al., "Mode of Action of Immunological Adjuvants: Some Physicochemical Factors Influencing the Effectivity of Polyacrylic Adjuvants," <i>Infect Immun.</i> <u>19</u> (2):667-675 (1978)
	C78	Krug, M. S. and Berger, S. L., "Reverse Transcriptase from Human Immunodeficiency Virus: a Single Template-primer Binding Site Serves Two Physically Separable Catalytic Functions," <i>Biochemistry</i> <u>30</u> (44):10614-10623 (1991)
PW	C79	Lalvani A. et al., "Rapid effector Function in CD8 + Memory T Cells," <i>J. Exp. Med.</i> <u>186</u> :859-865 (1997)
DV	C80	Lasky et al., "Delineation of a Region of the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein Critical for Interaction with the CD4 Receptor," <i>Cell</i> <u>50</u> (6):975-985 (1987)
	C81	Levy et al., "Isolation of Lymphocytopathic Retroviruses from San Francisco Patients with AIDS," <i>Science</i> <u>225</u> :840-842 (1984)
PW	C82	Littman et al., "Unusual Intron in the Immunoglobulin Domain of the Newly Isolated Murine CD4 (L3T4) Gene," <i>Nature</i> <u>325</u> (6103):453-455 (1987)

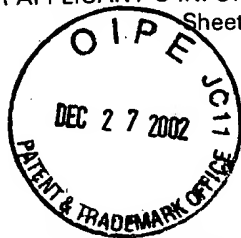
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BW	C83	Looney et al., "Type-restricted Neutralization of Molecular Clones of Human Immunodeficiency Virus," <i>Science</i> 241:357-359 (1988)
	C84	Maddon et al., "The Isolation and Nucleotide Sequence of a Cdna Encoding the T Cell Surface Protein T4: a New Member of the Immunoglobulin Gene Family," <i>Cell</i> 42(1):93-104 (1985)
	C85	Maignan, S., et al. "Crystal Structures of the Catalytic Domain of HIV-1 Integrase Free and Complexed with its Metal Cofactor: High Level of Similarity of the Active Site with Other Viral Integrases," <i>Journal Of Molecular Biology</i> 282(2):359-368 (1998)
	C86	Manca et al., "Antigenicity of Hiv-derived T Helper Determinants in the Context of Carrier Recombinant Proteins: Effect on T Helper Cell Repertoire Selection," <i>Eur J Immunol.</i> 26(10):2461-2469 (1996)
	C87	Mazumder, A., et al., "Effects of nucleotide analogues on human immunodeficiency virus type 1 integrase," <i>Molecular Pharmacology</i> 49(4):621-628 (1996)
	C88	Mazza et al., "Recombinant Interleukin-2 (Ril-2) in Acquired Immune Deficiency Syndrome (Aids): Preliminary Report in Patients with Lymphoma Associated with Hiv Infection," <i>Eur J Haematol.</i> 49(1):1-6 (1992)
	C89	McHeyzer-Williams, M.G. et al, "Enumeration and Characterization of Memory Cells in the Th Compartment," <i>Immunol. Rev.</i> 150:5-21 (1996)
	C90	McCluskie, et al., "Route and method of delivery of DNA vaccine influence immune responses in mice and non-human primates," <i>Mol Med.</i> 5(5):287-300 (1999)
	C91	McCornack et al., "HIV Protease Substrate Conformation: Modulation by Cyclophilin A," <i>FEBS Letts</i> 414:84-88 (1997)
	C92	McMichael, A.J. and O'Callaghan, C.A., "A New Look at T Cells," <i>J. Exp. Med.</i> 187(9):1367-1371 (1998)
PV	C93	Modrow et al., "Computer-assisted Analysis of Envelope Protein Sequences of Seven Human Immunodeficiency Virus Isolates: Prediction of Antigenic Epitopes in Conserved and Variable Regions," <i>J. Virol.</i> 61(2):570-578 (1987)
	C94	Montagnier et al., "Human T-Cell Leukemia Viruses: The Family of Human T-Lymphotropic Retroviruses. Their Role in Malignancies and Association with AIDS," Gallo, Essex & Gross, eds., pp 363-379 (1984)
PW	C95	Myers et al., "Human Retroviruses and AIDS," published by the Los Alamos National Laboratory, Los Alamos, NM, 1991, pp. I-A-48 to I-A-56 and II-77 to II-88
	C96	Nathanson et al., "Biological Considerations in the Development of a Human Immunodeficiency Virus Vaccine," <i>J Infect Dis.</i> 182(2):579-589 (2000)

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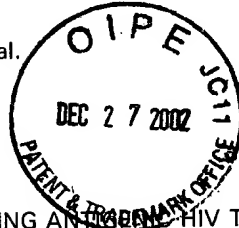
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BZ	C97	Novitsky et al., "Molecular Cloning and Phylogenetic Analysis of Human Immunodeficiency Virus Type 1 Subtype C: a Set of 23 Full-Length Clones from Botswana," <i>J. Virol.</i> <u>73</u> (5):4427-4432 (1999)
	C98	Nowak and Bangham, "Population Dynamics of Immune Responses to Persistent Viruses," <i>Science</i> <u>272</u> (5258):74-79 (1996)
	C99	Odile et al., "Anti-HIV Active Immunization, Evidence for Persistent Cell Mediated Immunity after a 2 Year Follow Up," Eighth International Conference on AIDS/III STD World Congress Amsterdam, The Netherlands 19-24 July 1992, Abstract No. MOB 0024
	C100	Okuda et al., "Induction of Potent Humoral and Cell-mediated Immune Responses Following Direct Injection of DNA Encoding the HIV Type 1 Env and Rev gene Products," <i>AIDS Res Hum Retroviruses</i> . <u>11</u> (8):933-943 (1995)
	C101	Palaniappan, C. et al., "Mutations Within the Primer Grip Region of HIV-1 Reverse Transcriptase Result in Loss of RNase H Function," <i>Journal Of Biological Chemistry</i> <u>272</u> (17):11157-11164 (1997)
	C102	Park et al., "Overexpression of The Gag-pol Precursor From Human Immunodeficiency Virus Type 1 Proviral Genomes Results in Efficient Proteolytic Processing in The Absence of Virion Production," <i>J. Virol.</i> <u>65</u> :5111 (1991)
	C103	Patel et al., "Insights into DNA Polymerization Mechanisms from Structure and Function Analysis of HIV-1 Reverse Transcriptase," <i>Biochemistry</i> <u>34</u> :5351-5363 (1995)
BZ	C104	Perelson, et al., "Decay Characteristics of Hiv-1-infected Compartments During Combination Therapy," <i>Nature</i> <u>387</u> (6629):188-191 (1997)
	C105	Popovic et al., "Detection, Isolation, and Continuous Production of Cytopathic Retroviruses (HTLV-III) from Patients with AIDS and Pre-AIDS," <i>Science</i> <u>224</u>:497-500 (1984)
BZ	C106	Pyle et al., "Immune Response to Immunostimulatory Complexes (ISCOMs) Prepared from Human Immunodeficiency Virus Type 1 (HIV-1) or the HIV-1 External Envelope Glycoprotein (gp120)," <i>Vaccine</i> <u>7</u> (5):465-473 (1989)
	C107	Redfield and Birx, "Hiv-specific Vaccine Therapy: Concepts, Status, and Future Directions," <i>AIDS Res Hum Retroviruses</i> <u>8</u> (6):1051-1058 (1992)
	C108	Reicin, A.S. et al., "Linker Insertion Mutations in the Human Immunodeficiency Virus Type 1 Gag Gene: Effects on Virion Particle Assembly, Release, and Infectivity," <i>J. Virol.</i> <u>69</u> (2):642-650 (1995)
DW	C109	Robey, et al., "Prospect for Prevention of Human Immunodeficiency Virus Infection: Purified 120-kDa Envelope Glycoprotein Induces Neutralizing Antibody," <i>Proc Natl Acad Sci USA</i> <u>83</u> (18):7023-7027 (1986)

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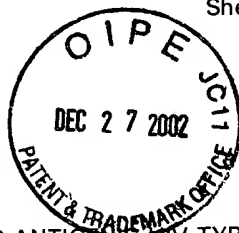
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DW	C110	Rodgers, D. W. et al., "The Structure of Unliganded Reverse Transcriptase from the Human Immunodeficiency Virus Type 1," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>92</u> (4):1222-1226 (1995)
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	C113	Salk et al., "Prospects for the Control of Aids by Immunizing Seropositive Individuals," <i>Nature</i> <u>327</u> (6122):473-476 (1987)
	C114	Scherthaner, et al., "Endosperm-specific Activity of a Zein Gene Promoter in Transgenic Tobacco Plants," <i>The EMBO J.</i> <u>7</u> :1249-1259 (1988)
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	C116	Sheng N. and Dennis, D., "Active Site Labeling of HIV-1 Reverse Transcriptase," <i>Biochemistry</i> <u>32</u> (18):4938-4942 (1993)
	C117	Smith et al., "Blocking of HIV-1 infectivity by a soluble, secreted form of the CD4 antigen," <i>Science</i> <u>238</u> (4834):1704-1707 (1987)
	C118	Spence R. A., et al., "Mechanism of Inhibition of HIV-1 Reverse Transcriptase by Nonnucleoside Inhibitors," <i>Science</i> <u>267</u> (5200):988-993 (1995)
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BW	C122	Sternberg et al., "Prediction of Antigenic Determinants and Secondary Structures of the Major Aids Virus Proteins," <i>FEBS Letters</i> <u>218</u> (2):231-237 (1987)

Examiner: Brian L. Whiteman

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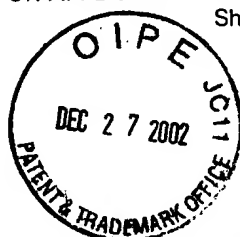
Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.101 (2302-1631.20)

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Art Unit: 1635

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Ex'r Initial	Ref. No.	Description
BW	C123	Tindle et al., "Chimeric Hepatitis B Core Antigen Particles Containing B- and Th-epitopes of Human Papillomavirus Type 16 E7 Protein Induce Specific Antibody and T-helper Responses in Immunised Mice," <i>Virology</i> <u>200</u> :547-557 (1994)
BW	C124	Vacca et al., "L-735,524: an Orally Bioavailable Human Immunodeficiency Virus Type 1 Protease Inhibitor," <i>Proc Natl Acad Sci USA</i> <u>91</u> (9):4096-4100 (1994)
	C125	Verma et al., "Gene therapy -- Promises, Problems and Prospects," <i>Nature</i> <u>389</u>(6648):239-242 (1997)
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PV	C127	Wagner R., et al., "Studies on Processing, Particle Formation, and Immunogenicity of the HIV-1 gag Gene Product: a Possible Component of a HIV Vaccine," <i>Arch Virol.</i> <u>127</u> :117-137 (1992)
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	C131	Wan et al., "Autoprocessing: an Essential Step for the Activation of HIV-1 Protease," <i>Biochem. J.</i> <u>316</u> :569-573 (1996)
	C132	Wang et al., "Induction of Humoral and Cellular Immune Responses to the Human Immuno-deficiency Type 1 Virus in Nonhuman Primates by in Vivo DNA Inoculation," <i>Virology</i> <u>211</u> (1):102-112 (1995)
	C133	Wang C. et al., "Analysis of Minimal Human Immunodeficiency Virus Type 1 Gag Coding Sequences Capable of Virus-like Particle Assembly and Release," <i>J Virol</i> <u>72</u> (10): 7950-7959 (1998)
	C134	Wu X., et al., "Targeting foreign proteins to human immunodeficiency virus particles via fusion with Vpr and Vpx," <i>J. Virol.</i> <u>69</u> (6):3389-3398 (1995)
	C135	Yeni et al., "Antiretroviral and Immune-based Therapies: Update," <i>AIDS</i> <u>7</u> (Suppl 1):S173-S184 (1993)
	C136	Yenofsky et al., "A Mutant Neomycin Phosphotransferase II Gene Reduces the Resistance of Transformants to Antibiotic Selection Pressure," <i>Proc. Natl. Acad. Sci. USA</i> <u>87</u> :3435-3439 (1990)
PV	C137	Yourno et al., "Nucleotide Sequence Analysis of the Env Gene of a New Zairian Isolate of HIV-1," <i>AIDS Res Hum Retroviruses</i> <u>4</u> (3):165-73 (1988)

Examiner: P. J. A.

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Ex'r Initial	Ref. No.	Description
PN	C138	Zagury et al., "Progress Report IV on Aids Vaccine in Human: Phase I Clinical Trial in Hiv Infected Patients," <i>VII International Conference on AIDS</i> , Florence June 16-21, 1991, Abstract No. M.A. 67
	C139	Zagury et al., "One-year Follow-up of Vaccine Therapy in Hiv-infected Immune-deficient Individuals: a New Strategy," <i>J. Acquired Immune Deficiency Syndromes</i> <u>5</u> :676-681 (1992)
	C140	Zhang Y., et al., "Analysis of the Assembly Function of the Human Immunodeficiency Virus Type 1 Gag Protein Nucleocapsid Domain," <i>J Virol</i> <u>72</u> (3):1782-1789 (1998)
PN	C141	zur Megede et al., "Increased Expression and Immunogenicity of Sequence-modified Human Immunodeficiency Virus Type 1 Gag Gene," <i>J Virol.</i> <u>74</u> (6):2628-2635 (2000)

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